

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): Osteoprotegerin isolated from human or bovine milk or colostrum, wherein the osteoprotegerin includes a glycosylation pattern giving rise to a polypeptide having a molecular weight of approximately 80, 130 and 200 kDa.

Claim 2 (canceled):

Claim 3 (previously presented): The osteoprotegerin according to claim 1, which has a polypeptide sequence identified by SEQ ID NO: 1.

Claim 4 (original): A food material containing an osteoprotegerin according to claim 1.

Claim 5 (original): The food material of claim 4 which is selected from the group consisting of milk, yogurt, curd, cheese, fermented milks, milk-based fermented products, ice-creams, fermented cereal-based products, milk-based powders, infant formulae and pet food.

Claim 6 (original): An enteral composition or a pharmaceutical composition containing osteoprotegerin according to claim 1 in an amount effective to assist in formation of lymphoid tissues and regulation of immune responses in a subject that consumes the composition.

Claim 7 (original): The enteral or pharmaceutical composition according to claim 6, which is selected from the group consisting of a solution, dried oral supplement, liquid oral supplement, dry tube-feeding or liquid tube-feeding.

Claim 8 (previously presented): A method of making a food material, enteral composition or pharmaceutical composition which comprises providing the food material, enteral composition or pharmaceutical composition and adding to the food material, enteral composition or pharmaceutical composition an amount of osteoprotegerin according to claim 1 effective to assist in formation of lymphoid tissues and regulation of immune responses in a subject that consumes the composition.

Claim 9 (original): The method according to claim 8, wherein the amount of osteoprotegerin is added to a food material selected from the group consisting of milk, yogurt, curd, cheese, fermented milks, milk-based fermented products, ice-creams, fermented cereal-based products, milk-based powders, infant formulae and pet food.

Claim 10 (original): The method according to claim 8, wherein the amount of osteoprotegerin is added to an enteral or pharmaceutical composition.

Claim 11 (original): An ingestible product made by the method of claim 8.

Claim 12 (withdrawn): A method for the treatment of disorders associated with bone remodeling which comprises administering to a person in need of such treatment the ingestible composition of claim 11.

Claim 13 (withdrawn): The method according to claim 11, wherein the disorder is osteoporosis, Paget's disease of bone, Osteomyelitis, infectious lesions in bone leading to bone loss, hypercalcemia, osteopenia, osteonecrosis, bone loss due to osteoarthritis or rheumatoid arthritis, periodontal bone loss or osteolytic metastasis.

Claim 14 (withdrawn): A method for the treatment or prophylaxis of immune disorders which comprises administering to a person in need of such treatment the ingestible composition of claim 11.

Claim 15 (withdrawn): The method according to claim 14, wherein the immune disorder is allergy, autoimmunity, inflammatory bowel diseases, systemic autoimmune conditions, dysregulation of cell proliferation and apoptosis and immunopathological conditions of the skin, the oral cavity, the gastrointestinal, urogenital or respiratory tracts.

Claim 16 (withdrawn): The method according to claim 14, wherein the disorders are associated with prematurity and/or low birth weight and the composition is administered to a child in need of such treatment.

Claim 17 (previously presented): A food material containing an osteoprotegerin isolated from human or bovine milk or colostrum, wherein the osteoprotegerin has been added to the food material and wherein said food material is selected from the group consisting of milk, yogurt, curd, cheese, fermented milks, milk-based fermented products, ice-creams, fermented cereal-based products, milk-based powders, infant formulae and pet food.

Claim 18 (currently amended): A method of making a food material, enteral composition or pharmaceutical composition, the method comprising providing the food material, enteral composition or pharmaceutical composition and adding to the food material, enteral composition or pharmaceutical composition an amount of osteoprotegerin isolated from human or bovine milk or colostrum effective to assist in formation of lymphoid tissues and regulation of immune responses in a subject that consumes the composition, wherein the osteoprotegerin includes a glycosylation pattern giving rise to a polypeptide having a molecular weight of approximately 80, 130 and 200 kDa and wherein the food material is selected from the group consisting of milk, yogurt, curd, cheese, fermented milks, milk-based fermented products, ice-creams, fermented cereal-based products, milk-based powders, infant formulae and pet food.

Claim 19 (currently amended): Osteoprotegerin obtained from recombination methods in cells yielding a glycosylation pattern as found in the milk-OPG, wherein the osteoprotegerin includes a glycosylation pattern giving rise to a polypeptide having a molecular weight of approximately 80, 130 and 200 kDa.